CFO 18048 / P204-0138

## WHAT IS CLAIMED IS:

 A target object modification apparatus comprising:

an aligner device configured to be able to
5 manipulate a posture of a supplied target modification
minute object;

first feed means configured to be able to supply the target modification minute object to said aligner device; and

- injection means configured to be able to inject modifiers onto the target modification minute object after the target modification minute object is set to a predetermined posture by said aligner device.
- The apparatus according to claim 1, further
   comprising an opening from which the modified target modification minute object is extracted, and second feed means for feeding, to the opening, the target modification minute object after fixing the modifiers.
- The apparatus according to claim 2, further
   comprising a storage reservoir to store the target
   modification minute object after fixing the modifiers,

wherein said second feed means feeds the target modification minute object after fixing the modifiers to the storage reservoir.

25 4. The apparatus according to claim 1, further comprising a target modification minute object reservoir which can store a predetermined amount of

target modification minute objects, and a modifier reservoir which can store a predetermined amount of modifiers,

wherein said first feed means feeds each target

5 modification minute object from said target

modification minute object reservoir to said aligner

device, and said injection means is connected to said

modifier reservoir.

- 5. The apparatus according to claim 4, wherein each of said target modification minute object reservoir, said modifier reservoir, and said storage reservoir to store the target modification minute object after fixing the modifiers has a cartridge shape and is detachable.
- 15 6. The apparatus according to claim 1, further comprising a fixing device to stably fix the modified target modification minute object.

20

- 7. The apparatus according to claim 1, further comprising a recovery mechanism to execute at least one of cleaning and sterilization of said injection means.
- 8. The apparatus according to claim 1, wherein said aligner device has a structure in which a plurality of manipulation electrodes are arranged around a recessed hole.
- 9. The apparatus according to claim 1, wherein a plurality of aligner devices are arrayed to be able to simultaneously modify a plurality of target

modification minute objects.

10. A control method for a target object modification apparatus, comprising:

a supply step of supplying a target modification

minute object to an aligner device capable of

manipulating a posture of the target modification

minute object; and

a driving control step of, after the target
modification minute object is set to a predetermined

10 posture by the aligner device, executing driving
control to cause an injection head to inject modifiers
onto the target modification minute object.